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10/584,864

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EXAMINER

CHEN, SHIN HON

ART UNIT

PAPER NUMBER

2431

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/584,864	<b>Applicant(s)</b> LEONE ET AL.	
	<b>Examiner</b> SHIN-HON CHEN	<b>Art Unit</b> 2431	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 14 September 2009.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 24-41 and 43-46 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 24-41 and 43-46 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 September 2009 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                    | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. Claims 24-41 and 43-46 have been examined.

#### ***Drawings***

2. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because figures 1, 3 and 5 do not contain written description to the steps involved. Applicant is advised to employ the services of a competent patent draftsman outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

#### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 24-41 and 43-46 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The Specification discloses that protected data resources are stored in remote database. However, the Specification does not clearly describe storing protected data resources that are encrypted along with data resources when storing both resources potentially breaches the security of the data resources the

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encryption is aimed to achieve. Therefore, the examiner examines the claims by interpreting that only protected data resources that are in encrypted form are stored in remote database. Applicant is welcome to contact examiner to clarify inventive concept to expedite prosecution.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 24-41 and 43-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ben-Chuan et al. U.S. Pat. No. 7177425 (hereinafter Ben) in view of Campbell U.S. Pub. No. 20040204124 (hereinafter Campbell).

7. As per claim 24, Ben discloses a method for the cipher controlled exploitation of data resources stored in a database associated with a computer system, comprising the steps of: providing a subscriber identity module carrying at least one security algorithm (Ben: column 3 lines 28-31: the cipher key generating module is SIM); producing a cipher key via said at least one security algorithm (Ben: column 3 lines 28-31); and using said cipher key for protecting said data resource (Ben: column 2 lines 30-35). Ben does not explicitly disclose a remote storing location accessible by said user via a communications network. However, Campbell discloses a remote server database that allows users of portable or wireless devices to store personal information/file in the database over a network (Campbell: [0004]). It would have been obvious

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to one having ordinary skill in the art to allow users to encrypt user's private/personal information and store in a wireless device and upload the desired encrypted files to remote server database for storage because both devices are capable of performing communication over network. Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to combine the teachings of Campbell within the system of Ben because it provides greater amount of memory space through remote server database.

8. As per claim 25, Ben discloses the method according to claim 24. Ben further discloses wherein said step of using said cipher key for protecting said data resources comprises the steps of: encrypting said data resources by means of said cipher key (Ben: column 2 lines 30-35); storing encrypted data resources in storage and retrieve encrypted resources from storage for decryption (Ben: column 5 lines 26-38).

Ben does not explicitly disclose a remote storing location accessible by said user via a communications network. However, Campbell discloses a remote server database that allows users of portable or wireless devices to store personal information/file in the database over a network (Campbell: [0004]). It would have been obvious to one having ordinary skill in the art to allow users to encrypt user's private/personal information and store in a wireless device and upload the desired encrypted files to remote server database for storage because both devices are capable of performing communication over network. Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to combine the teachings of Campbell within the system of Ben because it provides greater amount of memory space through remote server database.

9. As per claim 26, Ben discloses the method according to claim 24. Ben further discloses wherein said step of producing a cipher key comprises the steps of: generating at least one random value; subjecting said at least one random value to said at least one security algorithm to generate at least one session key; and processing said at least one session key via a mixer function to produce said at least one cipher key (Ben: column 2 lines 1-2: providing cipher key; column 5 lines 4-15: generating cipher key based on random values).

10. As per claim 27, Ben discloses the method according to claim 26. Ben further discloses the steps of: generating at least two random values; subjecting said at least two random values to said at least one security algorithm to generate at least two session keys; and combining said at least two session keys via a mixer function to produce said at least one cipher key (Ben: column 5 lines 4-15).

11. As per claim 28, Ben discloses the method according to claim 26. Ben further discloses wherein said mixer function comprises a hash function (Ben: column 5 lines 21-25).

12. As per claim 29, Ben discloses the method according to claim 26. Ben further discloses the step of inserting in said mixer function a user specific secret unrelated to said subscriber identity module security algorithm, whereby said cipher key is unpredictable even based on knowledge of said security algorithm carried in said subscriber identity module (Ben: column 3 lines 28-37).

13. As per claim 30, Ben discloses the method according to claim 24. Ben further discloses the step of selecting said data resources from user sensitive data or user credentials (Ben: column 4 lines 21-28).

14. As per claim 31, Ben discloses the method according to claim 30. Ben further discloses wherein said step of using said cipher key for protecting said data resources comprises the step of encrypting by means of said cipher key, said user sensitive data or said user credentials from plain text into an encrypted format (Ben: column 2 lines 29-35).

15. As per claim 32, Ben discloses the method according to claim 31. Ben further discloses wherein said step of using said cipher key for protecting said data resources comprises the step of decrypting by means of said cipher key said user sensitive data or said user credentials from an encrypted format into plain text (Ben: column 6 lines 21-24).

16. As per claim 33, Ben discloses the method according to claim 31. Ben further discloses wherein said user sensitive data or said user credentials in encrypted format have a cryptographic header associated therewith (Ben: column 5 lines 26-38).

17. As per claim 34, Ben discloses the method according to claim 33. Ben further discloses wherein said cryptographic header comprises an identifier of said subscriber identity module and

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a cryptographic checksum based on said cipher key, said cryptographic checksum being used for detecting any unauthorized modifications of said encrypted format (Ben: column 5 lines 21-25).

18. As per claim 35, Ben discloses the method according to claim 30. Ben does not explicitly disclose wherein said data resources are user credentials, said database associated with said computer system is a remote database and said data resources based on said user credentials are stored in said remote database in an encrypted format. However, Campbell discloses a remote server database that allows users of portable or wireless devices to store personal information/file in the database over a network (Campbell: [0004]). It would have been obvious to one having ordinary skill in the art to allow users to encrypt user's private/personal information and store in a wireless device and upload the desired encrypted files to remote server database for storage because both devices are capable of performing communication over network. Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to combine the teachings of Campbell within the system of Ben because it provides greater amount of memory space through remote server database.

19. As per claim 36, Ben as modified discloses the method according to claim 35. Ben as modified further discloses the step of establishing a relationship between said user credentials stored in said encrypted format in said remote database and a corresponding user subscriber identity module (Campbell: [0004]).

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20. As per claim 37, Ben as modified discloses the method according to claim 36. Ben as modified further discloses wherein said relationship is established by means of an identifier of said subscriber identity module (Campbell: [0004]).

21. As per claim 38, Ben as modified discloses the method according to claim 37. Ben as modified further discloses the step of using said identifier for searching within said remote database to permit said user exploitation of said user credentials (Campbell: [0004]).

22. As per claim 39-46, claims 39-46 encompass the same scope as claims 24-38. Therefore, claims 39-46 are rejected based on the same reason set forth above in rejecting claims 39-46.

### ***Response to Arguments***

23. Applicant's arguments filed 9/14/09 have been fully considered but they are not persuasive.

Regarding applicant's remarks, applicant mainly argues that the prior art of record does not explicitly disclose storing protected data resources in said remote database in encrypted format along with said data resources. However, the examiner has rejected the claims based on 35 U.S.C. 112 because storing data resources in encrypted form along with data resources in plain form in remote database does not protect data from unauthorized access. Based on Specification, data resources are encrypted and stored in remote database as protected data resources. Therefore, applicant's argument is not persuasive in light of above explanation.

***Conclusion***

24. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHIN-HON CHEN whose telephone number is (571)272-3789. The examiner can normally be reached on Monday through Friday 8:30am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William R. Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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